

SUBSTITUTE SPECIFICATION

WHAT IS CLAIMED IS:

1. A card device with an antenna feed terminal, comprising:

a card case comprising an upper cover and a lower cover, a circuit board disposed in the inner space of the card case, and an antenna rotatably disposed on the outside of the card case and electrically connected to a circuit formed on the circuit board,

wherein a through-hole is formed in a side wall of the card case for inserting an antenna rotating shaft formed of a conductive material on the base end of the antenna from the outside into the inside of the card case in a direction along the surface of the circuit board,

a part for supporting the antenna rotating shaft is formed on the inner wall surface of the card case such that an inner portion of the antenna rotating shaft, which is inserted through the through-hole into the inside of the card case, is supported within the card case in such a manner that the inner portion of the antenna rotating shaft is apart from the circuit board and is freely rotatable,

a feed terminal having elasticity is disposed between the inner portion of the antenna rotating shaft, which is located inside the card case, and an area of the circuit board, which faces the inner portion of the antenna rotating shaft, such that the elasticity of the feed terminal provides an urging force against the inner portion of the antenna rotating shaft,

the feed terminal is fixed to an antenna connection part of the circuit formed in the area of the circuit board, which faces the antenna rotating shaft, such that the feed terminal is electrically connected to the circuit of the circuit board, and

the feed terminal is urged by the urging force so as to be maintained in contact with the antenna rotating shaft.

2. The card device according to Claim 1, wherein the feed terminal is disposed between the side wall of the card case, in which the through-hole for inserting the antenna rotating shaft is formed, and the part for supporting the antenna rotating shaft such that the feed terminal is urged into contact with the inner portion of the antenna rotating shaft.

3. The card device according to Claim 1, further comprising an antenna

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rotation position holding arrangement for holding the antenna rotation adjustment position by friction.

4. The card device according to Claim 1, wherein the part for supporting the antenna rotation shaft is formed on the inner surface of the upper cover whereby the antenna rotating shaft is rotatably supported to the upper cover, the circuit board is fixed to the lower cover, and the feed terminal of the circuit board fixed to the lower cover is urged into contact with the antenna rotating shaft supported to the upper cover by combining the lower cover and the upper cover.

5. The card device according to Claim 1, wherein one of the upper cover and the lower cover has an extending wall formed so as to extend along the outer surface of the side wall of the other cover, a hook is formed on the end of the extending wall, a hook receiving part for receiving the hook to achieve a firm connection between the hook and the hook receiving part is formed on the other cover, and the upper cover and the lower cover are assembled by firmly engaging the hook of the one cover with the hook receiving part of the other cover.

6. A card device with an antenna feed terminal, comprising:

a card case and a circuit board disposed inside of the card case,
wherein a through-hole is formed in a wall of the card case for inserting an antenna rotating shaft formed of a conductive material extending from the outside into the inside of the card case,

a feed terminal having elasticity is disposed between an inner portion of the antenna rotating shaft, which is located inside the card case, and an area of the circuit board, which faces the inner portion of the antenna rotating shaft, such that the elasticity of the feed terminal provides an urging force against the inner portion of the antenna rotating shaft,

the feed terminal is fixed to an antenna connection part of a circuit formed in an area of the circuit board that faces the antenna rotating shaft, such that the feed terminal is electrically connected to the circuit of the circuit board, and

the feed terminal is urged by the urging force so as to be maintained in contact with the antenna rotating shaft.

7. A card device according to claim 6, further comprising an antenna

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rotatably disposed outside the card case, a base end of the antenna being connected to the antenna rotating shaft, whereby the antenna is electrically connected to the circuit formed on the circuit board.

8. A card device according to claim 7, wherein a part for supporting the antenna rotating shaft is formed inside of the card case such that an inner portion of the antenna rotating shaft, which is inserted through the through-hole into the inside of the card case, is supported within the card case and spaced apart from the circuit board and is freely rotatable.

9. A card device according to claim 6, wherein a part for supporting the antenna rotating shaft is formed inside of the card case such that an inner portion of the antenna rotating shaft, which is inserted through the through-hole into the inside of the card case, is supported within the card case and spaced apart from the circuit board and is freely rotatable.

10. The card device according to claim 9, wherein the feed terminal is disposed between a side wall of the card case, in which the through-hole for inserting the antenna rotating shaft is formed, and the part for supporting the antenna rotating shaft such that the feed terminal is urged into contact with the inner portion of the antenna rotating shaft.